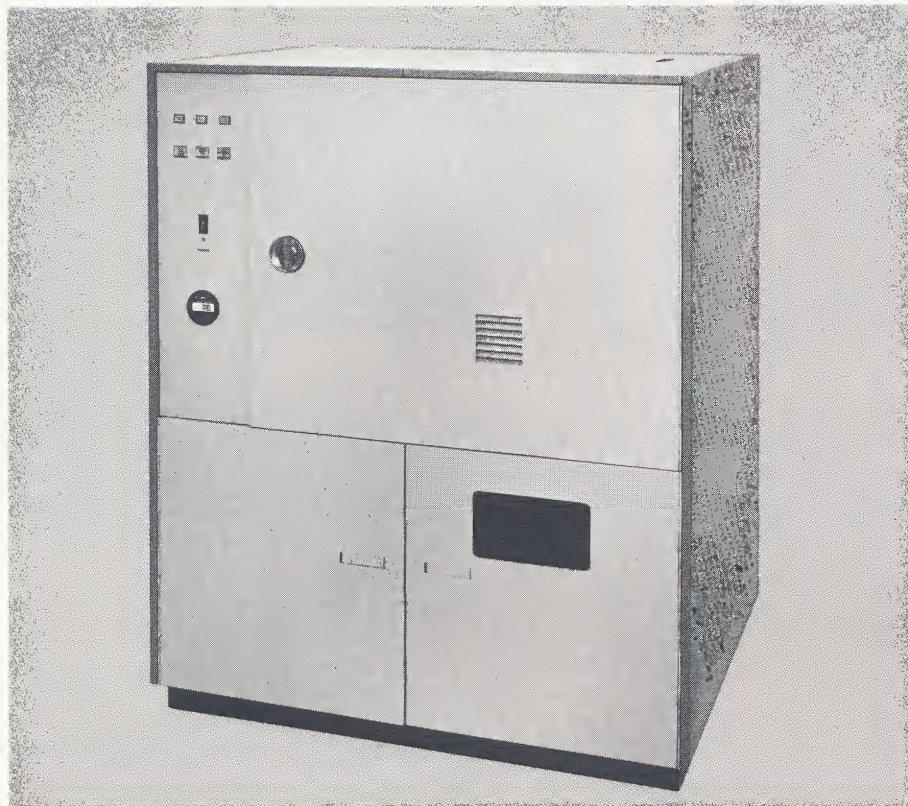


Continuous, unattended, on-line HARD COPY PRODUCTION



with...

DATASTAT

**MAKES
TRANSIENT
DATA
PERMANENT**

- Sensitivity of silver halide recording
- High speed accumulation of exposed film
- Ease of operation of electrostatic printing
- Low cost of electrostatic paper
- Rapidly processed negative for record or duplication
- For CRT monitoring, telemetry recording, or other inputs

Photomechanisms' DATASTAT system is a self-contained Monitor/Camera/Processor/Printer that automatically records transient data from TV or CRT presentations of all types including character generation and produces 8½x11 electrostatic hard copies. Print quality is high and either continuous tone or line copy may be produced, depending on the type of data being recorded.

The versatile DATASTAT will accept input data at any rate up to 6 frames per second. The first hard copy print is produced with a total time lag of 30 seconds and succeeding frames are produced at the rate of one every five seconds.

The DATASTAT uses a rapidly processed 35 mm. film intermediate that offers several unique advantages including high speed transient recording; high quality hard copy printing using a direct-positive technique; and a permanent film record.

Because it is designed to perform all its recording and printing functions automatically, the DATASTAT can operate remotely and, if necessary, unattended for long periods. This means it can be fitted easily into any on or off-line system where data is generated continuously or intermittently and hard copy is required with minimum delay.

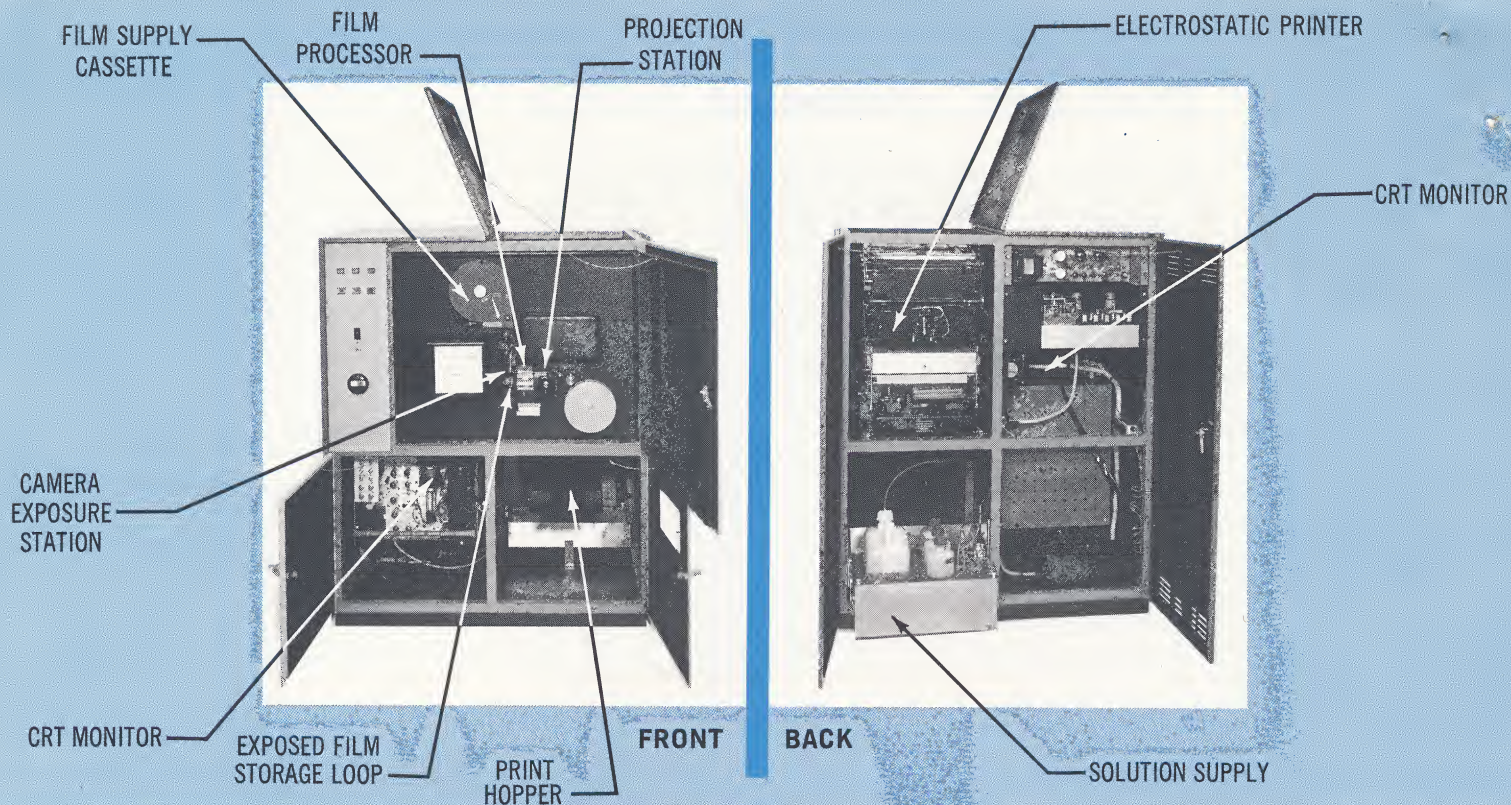
DATASTAT's economical electrostatic printing is particularly attractive where a large volume of data makes other recording media prohibitively expensive.

If you need hard copy from transient data, and if economy and speed are important to you, you'll be interested in the DATASTAT technical information on the reverse. You'll be interested, too, in what DATASTAT can do to solve your data handling problem.

PHOTOMECHANISMS

Incorporated

15 STEPAN PLACE, HUNTINGTON STATION, N.Y. 11746 • (516) HA 3-4411



The DATASTAT system shown above consists of five integrated subsystems: the CRT monitor, camera, processor, projection system, and electrostatic printer.

In operation, data is displayed on the CRT and is recorded by the DATASTAT camera. A two digit identification as well as time and date are simultaneously recorded on each film frame by auxiliary data indicators.

The exposed film is fed to a RAPIDATA® processor where fresh, heated solutions are applied to the emulsion side for sensitometrically controlled developing. The processed image is immediately flow-printed onto charged electrostatic print paper.

A toner bath quickly develops the black on white print and a dry print is deposited in a hopper.

Large access doors, easily replaced modular subassemblies, and pre-mixed processing solutions make servicing and maintenance of the DATASTAT quick and easy and virtually eliminate down time.

DATASTAT System Specifications

- CRT Monitor** — Supplied with high resolution, 10 in., flat face CRT in standard 19 inch rack mount. Will accept any similar unit.
 - Data Indicators** — 14 numeric digits (0-9) imaged onto film frame.
 - Recording Film** — High speed, blue sensitive, 400 foot capacity, 35 mm, Cassette loaded.
 - Recording Rate** — Maximum rate on pulse command, 6 per second. Maximum storage loop between exposure and processing, 25 frames. Higher rates and larger loops available on special order.
 - Film Processing** — Completely automatic, RAPIDATA® photo-processor, sensitometrically controlled. Drawer-type solution supply assembly.
 - Hard Copy Exposure** — Synchronized, flow-film exposure from film to electrostatic paper.
 - Type of Copy Produced** — Positive, black on white, line print from bright line display or positive, continuous tone print from electrically reversed TV display.
 - Electrostatic Paper** — 1000 foot roll of 8½ inch paper automatically cut to 11 inch length. Daylight loaded.
 - Standby** — Can be kept in standby condition indefinitely without impairing performance.
- | | | |
|--|---|---|
| Material consumption per 1000 hard copy prints: | { | 1 1000 foot roll electrostatic paper
110 feet 35 mm. film
½ pint developer solution
½ pint stabilizer solution
1 quart toner solution |
|--|---|---|



**NEED
HARD
COPY**

?

If you have all the time in the world and not much data, you can get along with Pleistocene methods.

If your data is transient and there's a lot of it, you'll want to see what the Photomechanisms' DATASTAT can do to cut your data handling problem down to size.

Check the enclosed description and specs on the DATASTAT and make a note to drop by and see it in action at the SID Symposium.

We'll be happy to demonstrate the DATASTAT's performance for you and show you how it can fit into your data handling system.

If you can't make it to Washington, and you'd like more information about DATASTAT, just drop us a line describing your problem.

You can see an operating DATASTAT at Booth 27

**Fourth National Symposium
Society for Information Display
Shoreham Hotel
Washington, D.C.**

October 1 and 2

PHOTOMECHANISMS

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HARD COPY PRODUCTION

with

DATASTAT

PHOTOMECHANISMS

incorporated

19 Stepan Place, Huntington Station, L. I., New York

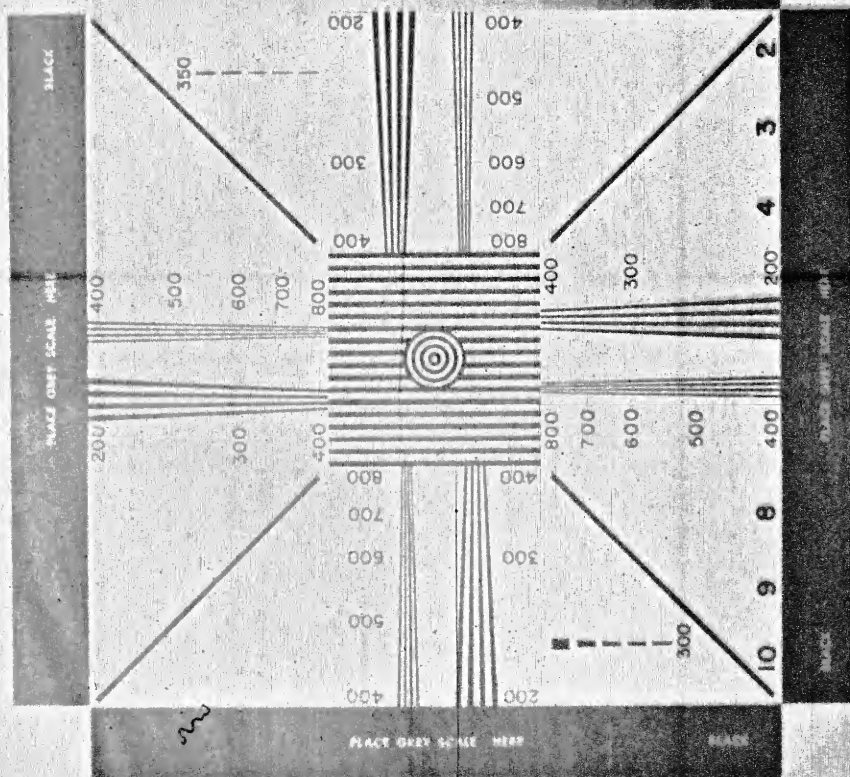
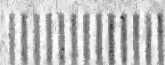
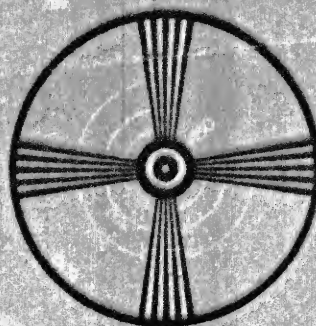
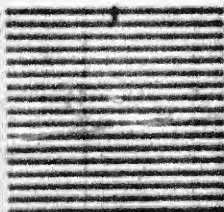
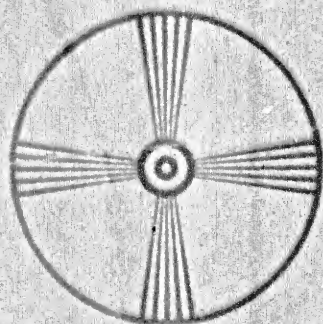
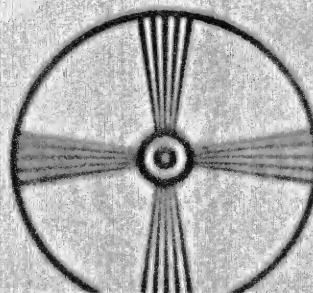
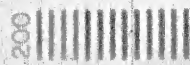
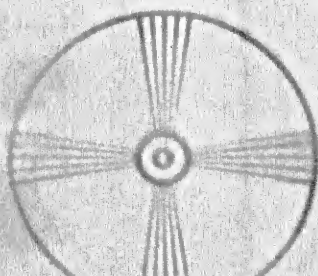


CHART 1956

RETNA RESOLUTION



HIGH PERFORMANCE

DATA HANDLING SYSTEMS

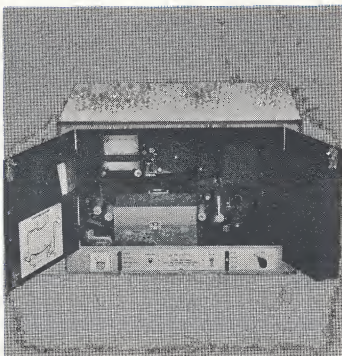
Shown below and on the reverse are typical Photomechanisms systems, selected to indicate the breadth of our ability to design and produce operational equipment that meets the most stringent data recording and processing requirements. Our unique ability to integrate techniques and devices is indicated by the fact that each of the systems described incorporates our patented Rapidata technique for controlling the application of processing solutions through meniscus applicators.

PHOTOMECHANISMS, INC. has long been known for sophisticated, high-performance data handling systems in which optical, photographic, electromechanical, and servo techniques are effectively integrated.

Photomechanisms' unrivalled systems capability includes:

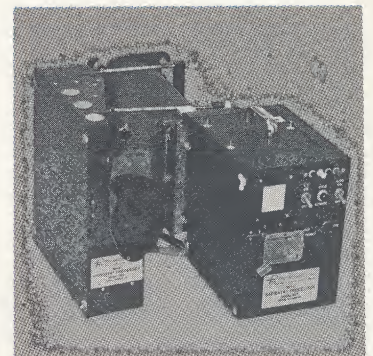
- ... photographic recording of both graphic and transient data,
- ... real time, rapid-access, photographic processing,
- ... hard copy generation by both electrostatic and silver halide techniques,
- ... presentation and utilization of processed photographic data.

MODEL 1052 ON-LINE RECORDER/PROCESSOR/VIEWER



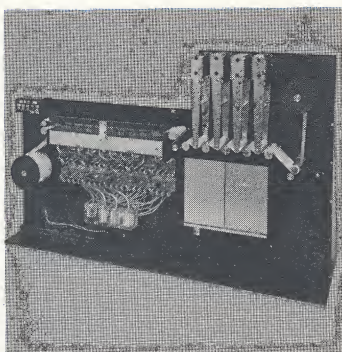
An operational ground station system for high quality, closely controlled processing of 70 mm. film. Photographs CRT and digital data display on a single frame of film, develops, fixes, washes, and dries the film and presents it for study in an illuminated viewer in only 90 seconds. Continuous processing can be performed at 20 inches per minute. A 16-foot capacity slack box allows time for frame by frame analysis or manual recall of a finished frame.

MODEL 967 RAPID ACCESS RECORDING PROCESSING MAGAZINE



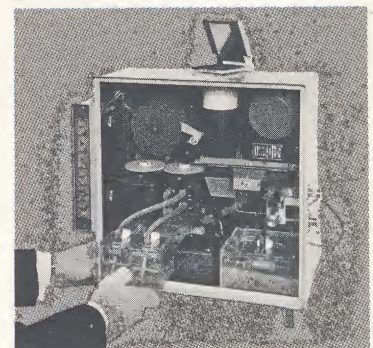
Designed to replace manned processing cameras, the 967 has the advantages of being cheaper and requiring no operator. It replaces the magazine of a standard camera which photographs a CRT monitoring an event like, for example, a nuclear reaction. The 967 automatically processes the exposed film to a fixed quality standard and presents it for viewing so rapidly that, in a nuclear application, the processed film is rendered insensitive to radiation.

MODEL 1190 VARIABLE SPEED PROCESSOR/VIEWER



A unique new concept in processors, the 1190 accepts and processes film at speeds up to 50 feet per minute and presents it for viewing even before processing is completed. Ten meniscus applicators permit developing, fixing, and rinsing of film in as little as 20 seconds. The processing rate can be matched to the data input rate by simple changes of valve settings. Quality is held constant regardless of processing rate.

MODEL 899 RAPROJECTOR—RAPID ACCESS CAMERA/PROJECTOR



Designed for incorporation in systems where close coupling is required between data input and output, the Raprojector photographs a data display, processes film, and projects the image for viewing in only 5 seconds. 35 mm. film is exposed by a camera lens and immediately pulled through a two-step processor into a projection gate. High temperature, accelerated processing and chemical stabilization of the image give rapid access to recorded data.

CONTINUED

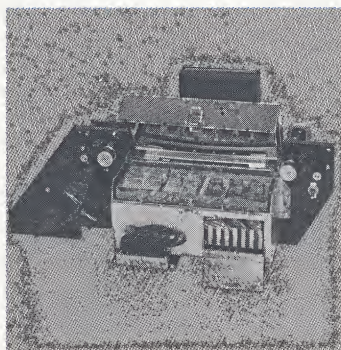
AMONG THE LATEST ...
 ... examples of
PHOTOMECHANISMS'
 capabilities are:

An angular coordinate lens probe system for orienting and training astronauts. This simulator is a scanning optical device that provides a realistic image of a terrain model or slide transparency as viewed at various attitudes and ranges.

Systems and hardware for on-line, hard copy generation by electrostatic means from rapidly processed photographic data.

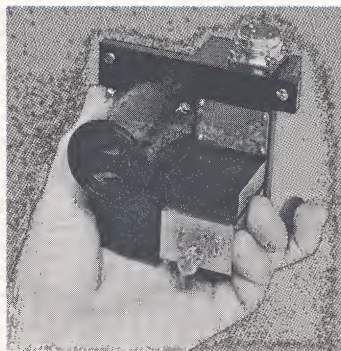
Hardware for both on and off-line processing of Kodak Bimat film—the virtually dry process that gives an immediate positive plus a high quality negative.

MODEL 1142 SMALL, SELF CONTAINED, RAPID ACCESS PROCESSOR FOR 16mm FILM



A processing subsystem compatible with computer, electronic, and optical environments, the 1142 is designed for continuous operation at 2 feet per minute. It processes 16 mm. film to archival keeping standards and can be modified to handle 35 mm. or 70 mm. film. Particularly suited to applications where space and weight are important, the 1142 can readily be adapted for airborne operation.

MODEL 551 MINIATURE, ON-LINE, PROCESSOR/VIEWER



Designed to be coupled to a film recording unit, the Model 551 processes 35 mm. film at 2½ inches per minute and displays a 2X magnified film image for viewing. A monobath and a clearing solution applied by two ½-inch long, porous applicators give consistent sensitometric quality. A separate solution supply unit and pump package make this miniature unit ideal for incorporation in on-line data processing systems based on side looking radar and other sensors.

In the Southwest, contact our representatives

DYNA SALES Company

Mail Address: P.O. Box 6757
 962½ So. Atlantic Blvd. • Los Angeles, California 90022
 Telephone: 268-1175 (Code 213)

or

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 Telephone: (516) HA 3-4411